

(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID : 1111

Roll No.

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B.Tech.

(SEM. I) ODD SEMESTER THEORY

EXAMINATION 2013-14

BIOLOGY – I

Time : 3 Hours

Total Marks : 100

Note :—Attempt all Sections.

SECTION–A

1. Attempt all the parts of this question : (10×2=20)

- (a) What is the difference between species and genus ?
- (b) What do you understand by herbarium ?
- (c) Differentiate between respiration and photosynthesis.
- (d) What are glycosidic bonds ?
- (e) What is the site of protein synthesis ?
- (f) Enlist the various parts of a flower.
- (g) Name the powerhouse of cell.
- (h) How is glycolysis different from fermentation ?
- (i) Define Cell.
- (j) What are cofactors ?

SECTION-B

2. Attempt any three parts of this question : (10×3=30)
- (a) Give the characteristics of protista and monera group.
 - (b) What do you understand by Cell Cycle ? Explain its various phases.
 - (c) Discuss the C_3 pathway in detail. Also compare C_3 pathway with C_4 pathways.
 - (d) What are Proteins ? Describe primary and secondary structure of proteins in detail.
 - (e) Discuss active transport. How it is different from diffusion ?

SECTION-C

Note :- Attempt all the questions from this Section : (10×5=50)

- 3. Describe the modifications of stem with suitable examples.
- 4. What is blood ? Describe the cellular components of blood.
- 5. What do you understand by Mitosis ? Why is it called as equational division ?
- 6. Explain pressure flow hypothesis of translocation of sugars plants.

OR

Give an account of various types of epithelial tissues with the help of labelled diagrams.

- 7. What are Enzymes ? Describe important properties of enzymes along with their classification.